

Tribhuvan University
Institute of Science and Technology
2080



Bachelor Level / Second Year/ Fourth Semester
Bachelors in Information Technology (BIT 253)
(Systems Analysis and Design)

Full Marks: 60
Pass Marks: 24
Time: 3 hours

Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.

Section A

Long Answer Questions

Attempt any TWO questions.

(2 × 10 = 20)

1. Define systems development methodology and systems development life cycle. Explain each phase of systems development life cycle in detail with appropriate diagram. (3 + 7)
2. Explain the process of identifying and selecting information system development projects. What are its deliverables and outcomes? (10)
3. Why do systems analysts use DFDs? Draw context diagram and data flow diagram up to level 1 for a retail clothing store in a mall that sells different cloths to its customers make necessary assumptions. (2 + 8)

Section B

Short Answer Questions

Attempt any EIGHT questions.

(8 × 5 = 40)

4. What is systems analysis and design? Explain modern approach to systems analysis and design in brief. (1.5 + 3.5)
5. Explain object-oriented analysis and design in brief. (5)
6. Describe several project evaluation criteria while classifying and ranking projects. (5)
7. What is economic feasibility? List commonly used cost-benefit analysis techniques. (3 + 2)
8. Explain interviewing and listening technique for determining requirements. (5)
9. Explain decision table with example. (5)
10. Define conceptual data model. Explain logical database design in brief. (1 + 4)
11. Describe the process of designing interfaces and dialogues. (5)
12. What are different approaches to installation? Which is the most expensive? (4 + 1)